

In the Claims:

1. (Currently Amended) Apparatus for treating a target tissue sensitive to changes in target tissue temperature comprising:

means for directing a plurality of energy pulses toward said target tissue; and

means for controlling said plurality of energy pulses to assist in pulsating said target tissue temperature over a predestined period of time to cause necrosis of selected cells in said target tissue.

2. (Currently Amended) Apparatus according to Claim 1, [~~wherein~~] include said plurality of energy pulses being adapted to assist in pulsating said target tissue temperature to periodically [increases] increase from a first temperature T₁ to a second temperature T₂ for a first period t₁ and then [decreases] decrease to substantially said first temperature T₁.

3. (Currently Amended) Apparatus according to Claim 1, [~~wherein said~~] include said plurality of energy pulses being adapted to assist in pulsating said target tissue temperature to aperiodically [increases] increase from a first temperature T₁ to a second temperature T₂ for a first period t₁ and then [decreases] decrease to substantially said first temperature T₁.

4. (Currently Amended) Apparatus according to Claim 1, [~~wherein~~] include said plurality of energy pulses being adapted to assist in pulsating said target tissue temperature [is] to be substantially uniform in temperature excursion and non-uniform in pulse spacing or period between pulses.

5. (Currently Amended) Apparatus according to Claim 1, [~~wherein~~] include said plurality of energy pulses being adapted to assist in pulsating said target tissue temperature [is] to be non-uniform in temperature excursion and substantially uniform in pulse spacing or period between pulses.

6. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include a radio frequency generator.

7. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include an ultrasonic generator.

8. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include a container of temperature-controlled fluid in thermal contact with said target tissue.

9. (Original) Apparatus according to Claim 1, wherein said means for controlling said plurality of energy pulses include a computer-driven sequencer.

10. (Original) Apparatus according to Claim 1, wherein said means for controlling said plurality of energy pulses include a waveform control device.

11. (Original) Apparatus according to Claim 1, wherein said means for controlling said plurality of energy pulses include a temperature sensor and monitor.

12. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include first and second planar electrodes.

13. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include a cylindrical, inflatable tube having electrodes.

14. (Original) Apparatus according to Claim 1, wherein said means for directing a plurality of energy pulses include a sphere having electrodes.

15. (Currently Amended) Apparatus for treating a target tissue containing diseased cells sensitive to temperature change comprising:

~~means~~ means for generating a plurality of energy pulses; and

~~means~~ means for controlling said energy pulses to provide a repetitive increase and decrease in temperature of said target tissue over a predetermined time period for causing necrosis of only said diseased cells.

Claim 16 (Currently Amended) Apparatus according to Claim 15, ~~[wherein]~~ include said energy pulses being adapted to provide said repetitive increase and decrease of said target tissue temperature ~~[is periodic]~~ periodically.

Claim 17 (Currently Amended) Apparatus according to Claim 15, ~~[wherein]~~ include said energy pulses being adapted to provide said repetitive increase and decrease of said target tissue temperature ~~[is aperiodic]~~ aperiodically.

18. (Currently Amended) Apparatus according to Claim 15, ~~[wherein]~~ include said energy pulses being adapted to provide said increase and decrease of said target tissue ~~[is uniform]~~ uniformly.

19. (Currently Amended) Apparatus according to Claim 15, ~~[wherein]~~ include said energy pulses being adapted to provide said increase and decrease of said target tissue temperature ~~[is non-uniform]~~ non-uniformly.

20. (Currently Amended) Apparatus for treating tissue cells containing one or more defective proteins comprising:

means for alternately heating and cooling said tissue cells with specific timing for each temperature excursion and specific temperatures for each temperature excursion ~~for selectively affecting tissue cells containing one or more defective proteins.~~

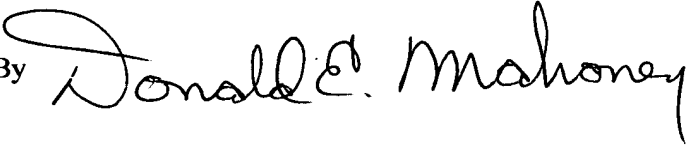
21. (Currently Amended) Apparatus according to Claim 20, ~~[wherein]~~ include said specific timing for each temperature excursion and specific temperature for each temperature excursion ~~[are selected]~~ being selected to cause necrosis of tissue cells containing said defective proteins.

22. (Currently Amended) Apparatus according to Claim 20, ~~[wherein]~~ include said means for alternately heating and cooling said tissue cells with specific timing for each temperature excursion and specific temperatures for each temperature excursion ~~[-are selected-]~~ being selected to cause necrosis of cells containing a defective protein.

23. (Currently Amended) A method for treating target tissue containing diseased cells sensitive to changes in target tissue temperature comprising the steps of:
directing a plurality of energy pulses toward said target tissue; and
increasing and decreasing said target tissue temperature over a predetermined period of time to selectively cause necrosis of substantially only said diseased cells.

Applicant has submitted only the corrected sections of the non-compliant amendment document. Reconsideration of the rejection of the amendment for non-compliance is respectfully requested.

Respectfully submitted

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